

4/8 Port PCI RS232 Serial Adapter Card 16950 Cable Included

PCI4S9503V PCI8S9503V



*actual product may vary from photos

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

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Introduction

The PCI8S9503V 8 Port PCI RS232 Serial Adapter Card High Speed 16950 (cable included) lets you connect up to 8 RS-232 serial devices to the host computer at data rates up to 921 Kbps, and can be installed in either a 3.3V or 5V PCI/PCI-X slot.

The PCI4S9503V 4 Port PCI RS232 Serial Adapter Card High Speed 16950 (cable included) lets you connect up to 4 RS-232 serial devices to the host computer at transfer rates up to 921 Kbps, and can be installed in either a 3.3V or 5V PCI/PCI-X slot.

The PCI serial card uses a 16 Byte buffer simultaneously in both transmit and receive channels, reducing the number of CPU interrupts while improving system performance.

Ideally suited to industrial applications, the buffered Serial PCI card is compatible with a broad range of operating systems, including Windows®, DOS®, Linux, and Unix operating environments.

Backed by a StarTech.com Lifetime warranty and free lifetime technical support.

Packaging Contents

- 1x PCI Serial Card
- 1x 8 Port DB9 Break-out Cable
- 1x Driver CD
- 1x Instruction Manual

System Requirements

- Acomputer running Windows XP/Vista/2000/NT/ DOS, Linux or SCO Open Server
- An open 3.3 or 5V PCI slot



Installation

Note: In one system, you can install two of these serial cards. You must differentiate between the two cards by using the jumper (located near the end of the card). The card with the jumper ON will be card number 1. The card with the jumper OFF will be card number 2. Install the cards one at a time, starting with the card you want to be designated number 1.

Installing the Card

- 1. Make sure that your system is unplugged and you are grounded.
- Remove the cover of your system (see your computer's user manual for details, if necessary) and gently turn your computer onto its side.
- 3. Locate an empty PCI slot (usually white in colour) and remove the metal plate that covers the rear bracket. You may need a Phillips screwdriver to perform this step. Hang on to the screw! You will need it to secure the card later.
- 4. Gently insert the card into the empty slot, making sure it is firmly seated.
- Secure the card in place using the screw you removed in Step 3 and put your computer case back on.
- 6. Plug the 37-pin end of the serial cable into the port on the card.
- 7. Turn the computer on.

Driver Installation

Note: Depending on your operating system and the configuration of your system, the instructions below may not be identical to what you see on your screen.



Windows Vista/XP/2000

Once you turn your computer on after installing the card, Windows will automatically detect the new hardware. Follow the onscreen prompts and direct Windows to the appropriate folder on the driver disk

Notes:

- To change the COM port number: Windows will automatically assign the card a COM port number. If you need to specify another port number, you can use the setup utility included with the driver. Go to: Control Panel/System/Hardware/Device Manager/Multi-Port Serial Adapter/Setup. From here you will be able to set the target value.
- Each serial card needs an open IRO for Plug and Play function.

Windows NT

Before you begin the installation, make sure you are logged in as a user with administrative privileges.

- 1. Start the Control Panel applet by double-clicking on its icon in the Program Managers main group.
- 2. Double-click the Network icon to bring up the Network Control Panel applet.
- Select Add Adapter. A list of possible adapters will be displayed. Select "Other: Requires disk from manufacturer."
- 4. When prompted for the path, specify the location of the driver for the card you installed. Depending on your version of the driver disk, the drivers may be found in the P584/NT4 folder.
- 5. Follow the onscreen prompts to complete installation. Make sure that the COM port number does not conflict with any other devices in your system.
- 6. Use the "Binding" function to make more serial ports available. If you do not perform a binding function, you may not have an extra COM port available in your next boot procedure.

Notes:

 When installing two cards in the same system, the card with the jumper ON will be assigned the lower COM port number. The card with the jumper OFF will have the higher COM port number.



DOS

When installing multiple cards in DOS, it is important to install the card designated card Number 1 (with the jumper ON) first.

1. Change your active directory to the target directory:

ex: c:\RAYON

- 2. Insert the driver disk into the disk drive and copy the DOS files from the driver diskette: ex: xcopy /s/e/v a:\DOS*.*
- 3. Run the driver installation command:

ex: c:\rayon\pciport

4. The cards will now be installed in your system. Each card will show the card number in the system (for the application to specify the target card and target port), the card model, the card jumper setting (for card number 1 or 2), the IRQ assigned, and the COM port number for the card.

You may see the following error messages:

- PCIPORT already installed. This means the driver has already been installed.
- Please check the "JP1". This means that both cards in the system have their jumpers ON.
- PCIPORT not in system. There is no card in the PCI slot.

Notes:

The driver function call description can be found on the DOS driver diskette. There is also a DEMO program for the user to meet their target application program.



LINUX

- 1. Login as super-user (SU) or root.
- 2. Change your directory to root and copy the driver diskette to the system:
- # cd /
- # tar xvf /dev/fd0
- 3. Change the directory to /etc/pciport and run the Install command:
- # cd /etc/pciport
- #./Install
- 4. Follow the prompts to perform the following:
- · Choose your Linux kernel version
- · Rebuild your system
- Exit and reboot with new settings

The device name will be /dev/tty8[1--2] [a--h]

Card Definitions

Card Number	Device Name
1	tty81?
2	ttv82?

Note: Card 1 is the card with the jumper ON.



I/O Port Number Definitions

Port Number	Device Name
Α	tty8?a
В	tty8?b
C	tty8?c
D	tty8?d
E	tty8?e
F	tty8?f
G	tty8?g
Н	tty8?h

For example, the device named /dev/tty82b is the device plugged into port B on card Number 2.

Notes:

- The above installation procedure installs a module type driver. If you can not install
 the driver successfully, you may need to use a kernel type driver. You will need to
 enter the Build directory and run Install again. In kernel type drivers, you may need
 to have the full source file for the Linux system to be re-compiled.
- Each serial card needs an open IRQ for Plug and Play function.



SCO OpenServer

- 1. Log in as a super-user (SU) or root.
- 2. Extract all the files on the diskette using the tar command:
- # cd /
- # tar xvf /dev/fd0135ds18
- 3. Change the directory to /etc/pciport and run the Build command:
- # cd /etc/pciport
- #./build
- 4. Reboot your system.

The device name will be /dev/tty8[1--2] [a--h]

Card Definitions

Card Number	Device
1	tty81?
2	tty82?

Note: Card 1 is the card with the jumper ON.

I/O Port Number Definitions

Port Number	Device Name
А	tty8?a
В	tty8?b
С	tty8?c
D	tty8?d
Е	tty8?e
F	tty8?f
G	tty8?g
Н	tty8?h

For example, the device named /dev/tty82b is the device plugged into port B on card Number 2

Notes:

- The resources for the card are assigned by the PCI BIOS. If your environment has
 changed, you may need to run the Build command again to remove the old driver
 and reinstall it again.
- Each serial card needs an open IRQ in order to function properly.



Technical Specifications

Connectors	DB 37-pin (female)
Expansion Cable	37-pin (male) & 9-pin (male)
Serial Interface	RS-232
Bus Interface	32-bit universal PCI
OS Compatibility	Windows Vista / 2000/NT/XP, Linux, and UNIX (SCO Open Server)
Data Transfer Rate	Up to 921Kbps
Power Consumption	5V @ 290mA, +12V @ 50mA & -12V @ 50mA
Data Signals	RS-232: F.G., TXD, RXD, RTS, CTS, DSR, DTR, DCD, RI & signal ground
Supported Slot Type	3.3V and 5V server slots

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For the latest drivers/software, please visit www.startech.com/downloads

Warranty Information

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